

Material Safety Data Sheet

WHMIS 	Protective Clothing 	TDG Road/Rail 
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SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

Product name: RO-TYME Crystal Drain Opener- Effective Date: 3/18/2003 Code No.: 1142A-USA
 USA (77660)
Product use: Cleaning solutions.
WHMIS: WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).
 WHMIS CLASS E: Corrosive solid.
TDG: TDG CLASS 8: Corrosive solid.
 1759 Corrosive solid n.o.s. (Sodium hydroxide) II
Manufacturer: Amco Inc.
 3700 Weston Road
 Toronto, ON M9L 2Z4
 (416) 746-3700
Supplier:

EMERGENCY PHONE : CANUTEC (613) 996-6666

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS #	Wt%	ACGIH-TLV	LC ₅₀ /LD ₅₀
1) Sodium hydroxide	001310732	50-80	TWA:2 (mg/m ³)	Not available.
2) Sodium carbonate	000497198	15-40	Not available.	ORAL (LD50) mg/kg: Acute: 4090 (Rat).

SECTION III - PHYSICAL DATA

Boiling point:	Not available.	Specific Gravity:	2.13 (Water = 1)
Vapour Pressure:	The highest known value is 0 mm of Hg (@ 20°C) (Sodium hydroxide).	Vapor Density:	Not available.
Solubility in Water:	Easily soluble in cold water, hot water. Insoluble in methanol, diethyl ether, n-octanol.	Percent Volatile:	Not available.
Physical State:	Solid. (pellets.)	Evaporation Rate:	Not available.
Appearance and Odour:	White.	pH (as supplied):	13.5
	Not available.	Viscosity:	Not available.

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Non-flammable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Hazardous Combustion Products: Not applicable.
Means of Extinction: Not applicable.
Special Fire Hazards:

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SECTION V - REACTIVITY DATA

Stability: The product is stable.
Incompatibility: Slightly reactive to reactive with oxidizing agents, acids.
Very slightly to slightly reactive with moisture.
Hazardous Decomposition Products: Not available.

SECTION VI - TOXICOLOGICAL PROPERTIES

Routes of Entry Ingestion. Skin contact. Inhalation.
Acute Effects on Humans: Very dangerous in case of ingestion, of inhalation. Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
Chronic Effects on Humans: **CARCINOGENIC EFFECTS:** Not available. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available. Toxicity of the product to the reproductive system: Not available. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.
Synergistic Materials: Not available.

SECTION VII - PREVENTIVE MEASURES

Gloves:
Eye Protection:
Respiratory Protection:
Other Protective Equipment: Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Leak and Spill Procedure: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.
Corrosive solid.
Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid.
Waste Disposal: Recycle, if possible. Consult your local or regional authorities.
Storage Requirements: Corrosive materials should be stored in a separate safety storage cabinet or room.

SECTION VIII - FIRST AID

Eye: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin: If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion: DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

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SECTION IX - OTHER INFORMATION

References Not available.

Additional remarks: No additional remark.

Validated by Armeo Inc. on 3/18/2003.

Verified by Technical Director.

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